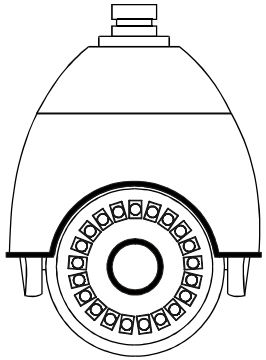
User Manual

Intelligent IR Middle Speed Dome



Version. VH1. 0

八.简易故障排除表

故障描述	可能原因	排除方法
通电无动作、无图象、指示灯不亮	电源线接错	更正
	供电电源损坏	更换
	电源线接触不良	排除
通电有自检有图象不能控制、指示灯不闪烁	地址码、波特率设定的不对	重新设定地址码和波特率
	协议不对	更正
	Rs485线接反或开路	检查Rs485控制线
	数据线接错	更正
	码转换器故障	更换
通电有自检有图象部分功能失效	协议不正确	更正
	R232与RS485转换器故障，或未按RS485的布线规则布线	更换转换器或更改布线方式
自检进行不了，有图象后伴有马达鸣叫声	机械故障	检修
	摄象机倾斜	摆正
	电源功率不够	更换电源，最好把电源放在球机附近或选用更粗线径的电源线
图象不稳定	视频线路接触不良	排除
	电源功率不够	更换
画面模糊	聚焦在手动状态	操作球机
	球罩脏	清洗球罩
球机控制不停或者延迟	球机电源功率不够	更换电源，最好把电源放在球机附近或选用更粗线径的电源线
	检查最远处球机匹配电阻是否加入	离控制端最远处球型摄象机加入匹配电阻

1.Product Summary:

Thanks for choosing our products. Please read the instruction completely before operation.

High integration of high definition color camera, PTZ, multi-function decoder , CPU Processor and memory chip, super stability, convenient installation and simple maintenance, attractive and simple performance , easy operation etc, it's a high technology surveillance product.(The best feature: set up dome IP address, protocol and baudrate. For more, check page 4 alarm panel functions)

With independent intellectual property rights of four breakthrough patented technology, it solves a poor picture quality caused by light reflected from IR Led in constant speed or high speed dome . Also has extensive monitoring, fast rotation speed, clear pictures at night , and the advantages of quickly remote control .

Built-in φ135mm large high-brightness IR led board(power supply: 12V2A,24 W) , make full use of IR lights, identify people face even in the starlight in the 100 meters .The metal case: the aluminum, water-resistant, anti-aging, anti-corrosion and good light transmission.

Feature:

Camera Specifications:

Support all-in-one cameras of SONY series, LG series, CNBseries and Yoko series etc.

PTZ Function:

I.Achieve slow-moving through the rocking bar.
II.The shortest path PTZ cruising track, with vector drive technology.
III.Speed: 80° / S (middle)

Preset Position, Cuising Tracks, Line Scanning.

I.Preset position:128
II.4 groups of cuising tracks, 16 preset positions per group. Set up stay time according to your need.
III.Auto line scanning between two preset points
IV.Lens preset function

PTZ Lens Control

I.Control up to 255 cameras through RS-485
II.Automatic identification of PELCO-D, PELCO-P protocol.

OSD Menu

I.Set up camera functions through OSD menu.
II.Camera PTZ number, preset point information can be displayed on the screen or turn off

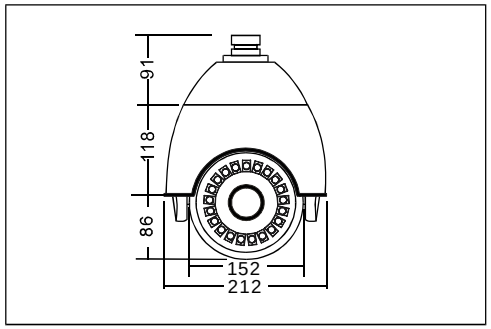
Alarm Input \Output

I.Up to 8-channel external alarm input signals and four alarm output signals can be used
If any one alarm detector is activated, the camera will automatically move to a preset position.
At the same time , start sound and light alarm device.

2. Technology Specifications:

2.1 Shape Parameter:

Product outline



Dimention

2.2 Specifications:

PTZ	Rotation range		Horizontal :360° continuous, Vertical:90° , 180° auto flip
	Speed	Preset transfer	80° /S
		Manual speed	0.5~80° /S
		Auto Scanning	Auto
	Preset Positions:		128
	Cruising Tracks:		4
	Line Scanning:		1
Parameter	Communication:		RS-485 (255 cameras)
	Protocol:		PELCO-D PELCO-P (auto recognition)
	Baudrate:		2400, 4800, 9600, 19200 selectable
	Alarm input/output:		input 8, output 4
	OSD:		Menu/ PTZ, lens info.
	IR View :		100m
	Temperature:		0℃~50℃
	Humidity:		≤95% (No fog)
	Power Supply:		DC12V/3A
	Package Size:		365*315*280mm

4、球机设置

```
      DOME   SETUP
CAMERA  ID:    001      ←
FOCUS:         AUTO
BLC:           OFF
DAY/NIGHT:     AUTO
IRIS MODE:     AUTO
CAMER  MENU
BACK
```

该菜单设置摄像机的主要参数

- CAMERA ID 摄像机地址设置
- FOCUS 聚焦模式[自动/手动]
- BLC 背光补偿
- DAY/NIGHT 日夜切换
- IRIS MODE 光圈状态[自动/手动]对SONY
- CAMER MENU 摄像机内部菜单

进入摄象机内部菜单，退出需按光圈，退出内部菜单进入普通菜单。

5、报警输入设置

```
      DOME  SETUP
ALARM IN CHANNEL :    1/8
ALARM ENABLE:         OFF
RELATE PRESET
RELATE RELAY OUT      ←
BACK
EXIT
```

该功能可使您将报警探测器联动某个预置点，如果报警探测器被激活，则摄像机能自行移动到相应的预置点。

- ALARM IN CHANNEL 报警输入通道
- ALARM ENABLE 报警功能开关
- RELATE PRESET 关联预置位
- RELATE RELAY OUT 关联报警输出

6、额外设置

```
      EXTRA  SETUP
AUTO  FLIP:    OFF      ←
OFF TIME:      3SEC
Id:            ON
PRESET LABEL:ON
PARK SETUP
BACK
```

- AUTO FLIP 自动翻转模式（垂直方向翻转）
- OFF TIME 预置点巡航停留时间
- ID 在屏幕上显示球机地址
- PRESET LABEL 预置位号在屏幕上显示
- PARK SETUP 守望位设置

```
      PARK  SETUP
PARK ENABLE: ON        ←
PARK TIME: 001
PRESET No: 001
BACK
```

- PARK ENABLE 守望位功能开启/关闭
- PARK TIME 守望位返回时间设置1-60分钟
- PRESET No 联动预置位
- BACK 返回

●打开菜单：

按80+CALL（调用80预置位）组合键打开屏显菜单。

●菜单按键操作原则：

1.输入倍率指令“TELE”或“WIDE”进行菜单的上下选项操作。

2.输入聚焦指令“NEAR”或“FAR”改变选项设置，而“FAR”键功能类似“ENTER”键。

2、主菜单

```
      MAIN   MENU
  SYSTEM  INFORMATION  ←
  DISPLAY  SETUP
  DOME  SETUP
  ALARM  SETUP
  EXTRA  SETUP
  RESET
  EXIT
```

- SYSTEM INFORMATION 系统信息
- DISPLAY SETUP 显示设置
- DOME SETUP 球机设置
- ALARM SETUP 报警设置
- EXTRA SETUP 额外设置
- RESET 复位
- EXIT 退出

3、系统信息

```
      INFORMATION
  PROTOCOL:  PELCO_D
  ADDRESS:      001
  BAUDRTE:      9600
  CAMERA:       LG
  BACK            ←
```

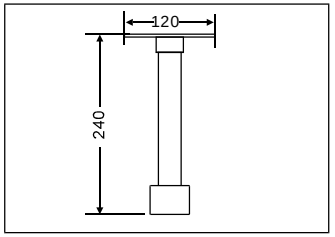
此菜单只供查询用，按“F+”下翻页到出厂设置.当光标停留在如图位置,按"F-"将返回到主菜单。

```
      FACTORY INF
CAMERA TYPE:     LG
DATE:            2008.11.13
MANUFACTURER:    ANAGAL
DOME TYPE:       MIDDILE
VERSION:         VER2.0
SERIAL:          00002
BACK               ←
```

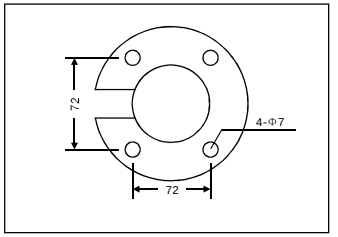
- CAMERA TYPE 摄像机 出厂型号
- DATE 产品出厂日期
- MANUFACTURER 制造商
- DOME TYPE 球机类型
- VERSION 软件版本号
- SERIAL 00002
- BACK 退出

2.3 The Bracket:

The ceiling bracket

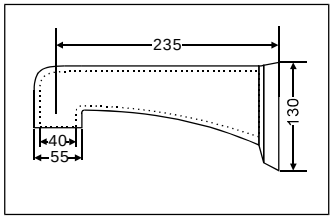


Dimention

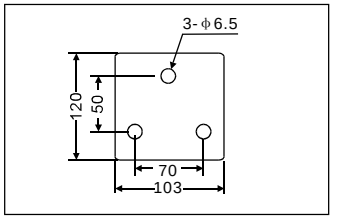


Ceiling install

The wall-mounted bracket



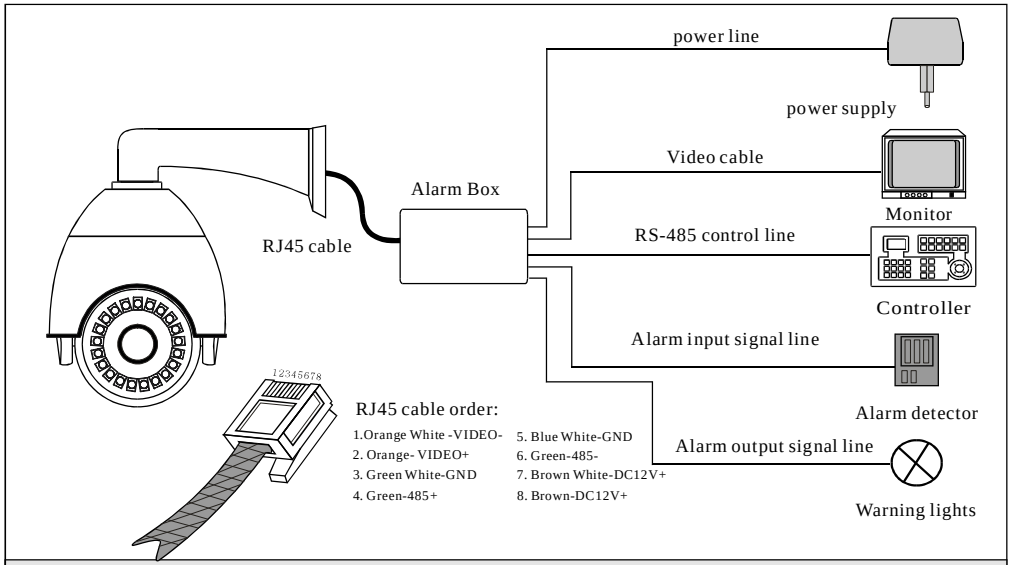
Dimention



Wall install

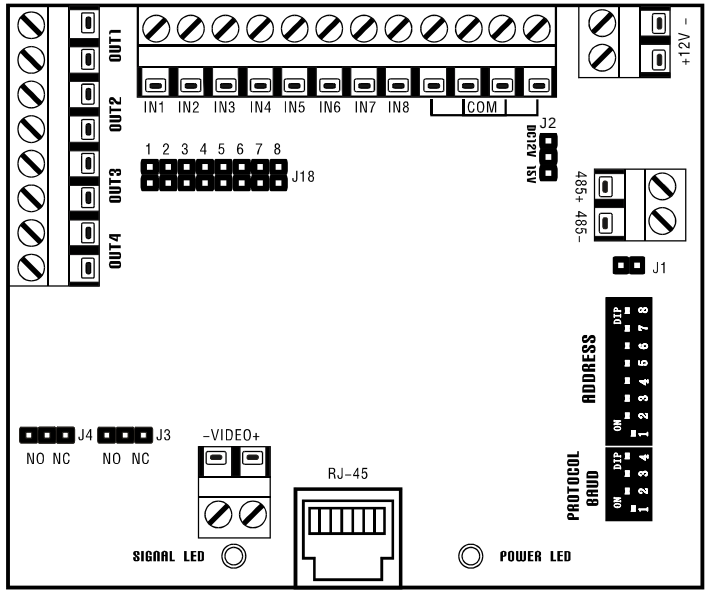
3.Intallation instruction:

3.1 Alarm Box install chart



Alarm system connected graph

3.2 Alarm panel installation instructions:



Function:

I.IN1-IN8: 8 Chanels Alarm input , OUT1-OUT4: 4 Chanels Alarm output

II.Each two inputs is corresponding to one Alarm Output

III.8 inputs is responding to 8 preset points

IV.Change dome IP address , baudrate and protocol through the DIP switch on the alarm panel without aparting the dome. Be sure the decoder board is factory setting. (Address 1, baudrate,2400 , protocol: PELCO-D)

6、摄象机菜单操作

a 调用80号预置点开启摄象机菜单

b 菜单上下选项操作：输入倍率指令TELE 或WIDE

c 进入子选项操作：输入光圈指令OPEN或CLOSE

d 改变选项设置：输入聚焦指令NEAR或FAR

7、断电状态记忆：

当球机处于运行线扫或巡视轨迹状态，以及静止状态,出现断电，球机将保存断电前状态。如重新上电，则恢复断电前的状态。（手动状态除外）

七、摄像机使用指南

操作前检查事项

◆ 通电前仔细检查线缆连接是否正确。

◆ 键盘控制地址必须与预操作球机地址码一致，通过球机地址码开关可以修改球机地址。

◆ 若键盘支持多种通讯协议，则必须使用与预操作摄像机一致的通讯协议。

◆ 如果使用其他公司的控制系统，由于不同的控制系统平台的具体操作方法不尽相同，一般应以控制系统平台制造商的操作手册为准，本机的某些功能不一定能够实现。某些情况下会有些特殊要求和操作方法，请与该控制系统平台经销商联系获取必要信息。

◆ 因为预置点“80”为屏幕菜单显示保留，不可以做为常规的预置点使用，本手册介绍的“1-128”号预置点不包含“80-86”和“71-73”号预置点。

开机自检信息

```
PROTOCOL:   PELCO_D
ADDRESS:      001
BAUDRTE:      2400
CAMERA:        LG

PLEASE  WAIT...
```

- PROTOCOL 协议
- ADDRESS 地址位
- BAUDRTE 波特率
- CAMERA 摄像机型号

1、开启屏幕菜单

● 功能：

使用屏显菜单可以查看产品信息，预置点滞留时间，自动翻转显示及摄像菜单等功能。

（2）自动线扫的启用

通过控制键盘或硬盘录像机执行“调用84号预置位”的命令（未设左右限位的情况下，自动扫描功能则不会动作，设置左右限位后会自动在限位的两点间来回扫描）

例：使用某型号控制键盘启用自动扫描

A、输入84

B、点击CALL键

（3）线扫停止命令

通过控制键盘或硬盘录像机执行“调用或清除86号预置位”或者手动摇柄即可停止

例：使用某型号控制键盘进行线扫的停止

A、输入86

B、点击CALL或CLS键或摇动手柄

4、恢复出厂设置

通过控制键盘或硬盘录像机执行“调用80号预置位”的命令调用内部菜单，上下键选择RESET，停留3S钟后则所有已设置的预置位、左右限位及其他功能均被复位。

5、相关轨迹调用功能对照

序号	预置位	对应内部巡航轨迹功能
1	81（调用）	第一条（00-15预置位）
2	82（调用）	第二条（16-31预置位）
3	83（调用）	第三条（32-47预置位）
4	84（调用）	两点线扫功能，参考线扫设置
5	85（调用）	第五条预留
6	86（调用）或摇动手柄	停止巡航轨迹运转

注：第三条轨迹可通过以下功能设置速度：

调用71预置点速度5度/S

调用72预置点速度20度/S

调用72预置点速度80度/S

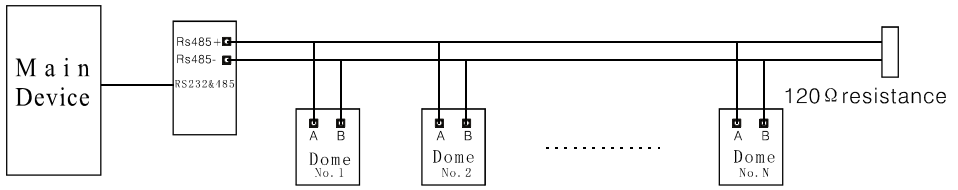
Baudrate and protocol table:

protocol Switch State	Protocol	Baudrate Switch State	Baudrate
1 2	PELCO-D	3 4	2400
1 2	PELCO-P	3 4	4800
		3 4	9600
		3 4	19200

Alarm board address setting refer to dome IP address setting.

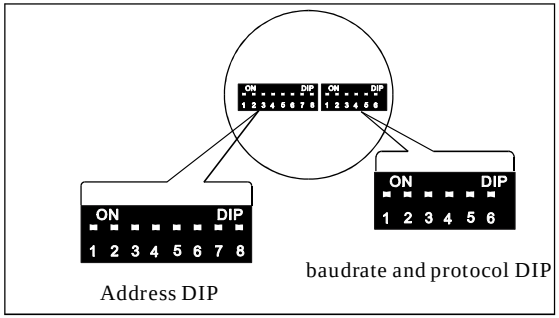
3.3 Installation system

In order to avoid the reflex and disturb of transmit and other signals,the furthest device connector needs to match up to resistance for center controller.for example:



4. Set up Protocol, Baudrate and IP Address Code

Be sure to check the communication protocol, baudrate and IP address code of the control system before installation. There are two sets of DIP switches on PCB board. And DIP switch is set fully consistent with the system.



Remove the four screws on the metal case with a screwdriver , we can see two sets of DIP switches after removing the plastic part.
As showed above.

4.1 baudrate, protocol, and address code table;

1>Set Baudrate:

Baudrate Switch State	Baudrate	Baudrate Switch State	Baudrate
5 6	2400	5 6	4800
5 6	9600	5 6	19200

2>Set Protocol and Camera Model

protocol Switch State	Protocol	Model Switch State	Camera Model
1 2	PELCO-D	3 4	AN-122
1 2	PELCO-P	3 4	LG/YOKO
1 2		3 4	SONY
		3 4	CNB

（1）调用内部巡视线路

通过控制键盘或硬盘录像机执行“调用81号预置位”，即可使球机自动巡视已设置的第一条巡视线路中的预置位，而“调用82号预置位”为自动巡视第二条巡视线路中的预置位。

例：使用某型号控制键盘启用第二条自动巡视线路

A、输入82

B、点击CALL键

（2）自动巡视时预置位停留时间设置

本球机在内部巡视预置位时的停留时间有3、5、8、10、20秒五档可调。操作方式可参考内部菜单功能

（3）清除内部巡视线路

操作方式通过控制键盘、硬盘录像机执行“调用或清除86号预置位”或摇动手柄即可停止自动巡视线路。

3、左右限位、自动线扫的设置、启用及停止

本球机因采用导电环及光电限位，出厂默认的情况下为360度连续旋转，可通过后台的控制键盘、硬盘录像机进行球机的左右旋转限位的设置,并可在设置的限位间自动扫描。

（1）左右限位设置

将球机移动到需限位的位置后通过控制键盘或硬盘录像机执行“设置62号预置位”的命令设置好起点，然后将球机向右转动至右限位的位置后执行“设置63号预置位”的命令设置好终点，左右限位即设置完成。

例：使用某型号控制键盘进行左右限位的设置

A、移动控制摇杆将球机移到左限位所需要的位置

B、输入62

C、点击SET键

D、移动控制摇杆将球机移到右限位所需要的位置

E、输入63

F、点击SET键

六、功能操作说明

通过直控键盘对球机的控制，可实现其全部功能。如果使用其他公司的控制系统，由于不同的控制系统平台的具体操作方法不尽相同，一般应以控制系统平台制造商的操作手册为准，某些情况下会有些特殊要求和操作方法，请与该控制系统平台经销商联系获取必要信息。

功能操作说明

1、设置 / 调用预置位

预置位功能是通过控制设备设置云台的水平角度、垂直角度的位置参数，以数字形式储存到球机中，需要时调用这些参数就可将球机调整至预置位置状态。操作者可方便快捷地通过控制键盘等设备设置/调用预置位，本球机支持128个预置位。

（1）设置预置位

通过控制键盘或硬盘录像机将球机移动到相应的位置后参照控制键盘或硬盘录像机设置预置位的功能进行预置位的设置，并输入相应的预置位编号。

例：使用某型号控制键盘设置1号预置位

A、移动控制摇杆将球机移到所需要的位置

B、输入1

C、点击SET键

（2）调用预置位

参照控制键盘或硬盘录像机调用预置位的功能进行预置位的调用，并可按需求的预置位编号进行调用。

例：使用某型号控制键盘调1号预置位

A、输入1

B、点击CALL键

2、内部巡视线路的调用/清除

内部巡航轨迹是指通过操作任意设定巡航路线，只需一个外部命令就可以让球机自动地按指定的路线进行巡视，并可在相应的预置位进行停留。本球机4条自动巡视线路，每条巡视线路可存储16个预置位。

3> Set Dome ID Address

Address	Switch	Address	Switch	Address	Switch
0		22		44	
1		23		45	
2		24		46	
3		25		47	
4		26		48	
5		27		49	
6		28		50	
7		29		51	
8		30		52	
9		31		53	
10		32		54	
11		33		55	
12		34		56	
13		35		57	
14		36		58	
15		37		59	
16		38		60	
17		39		61	
18		40		62	
19		41		63	
20		42		64	
21		43			

Address calculation method: (The following is the switch value on the OFF state)

Switch: 1 2 3 4 5 6 7 8

Corresponding values: 1 2 4 8 16 32 64 128

Address ID is equal to the sum of the the value corresponding to switch

5.Installation Instruction:

5.1 Installation requirements:

I.Installation should be operated by professional technical personnel or system installers in suitable Enviroment.

Ⅱ.Avoid direct hand contact with dome lower case to ensure clear picture.

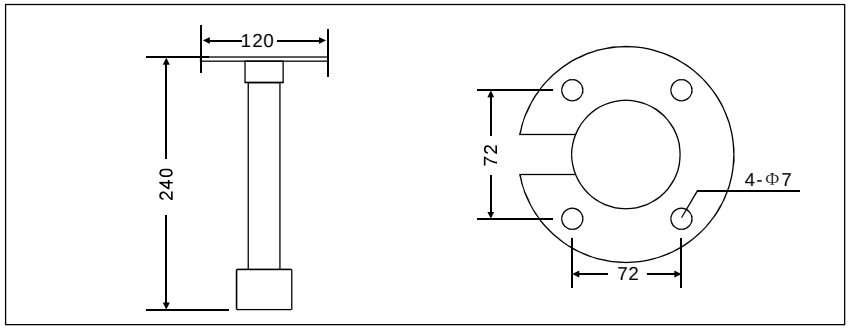
5.2 Installtion:

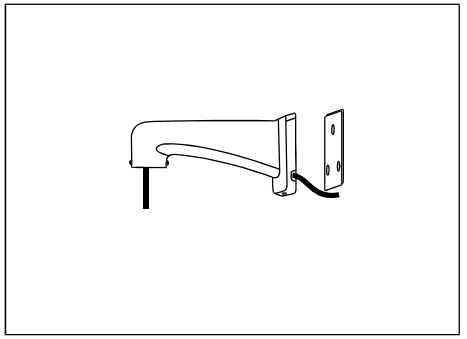
A.Ceiling Install:

Installation method:

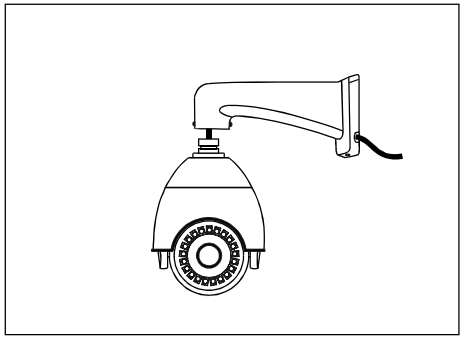
Caution:
◆ Make sure the strength of ceiling before installing to avoid dome falling .If you feel that the ceiling is not strong enough, we could use appropriate board as done liner. And fix the bracket by screws.

Ceiling bracket dimention diagram:

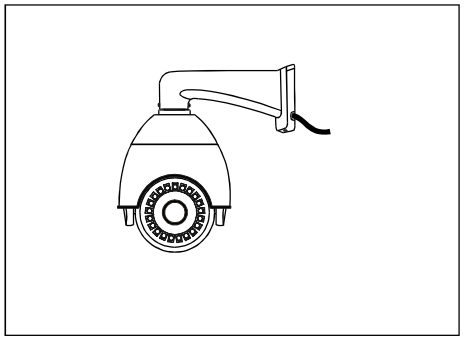




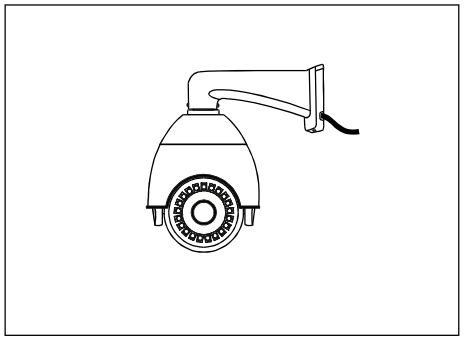
3.将数据线从支架穿出并将支架套在底座上，锁好下面的螺丝。



4.将数据线上的端子，插入球机顶端的接口端子内。



5.将球机顶端插入支架前端的孔内，并锁紧侧面的3颗螺丝。



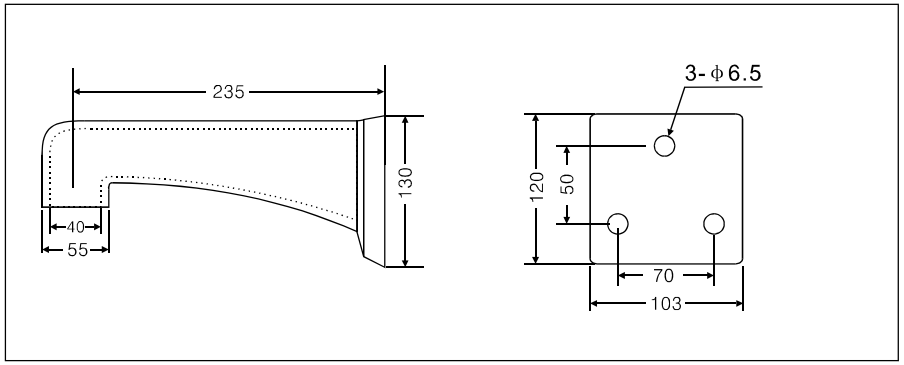
6.安装完毕。

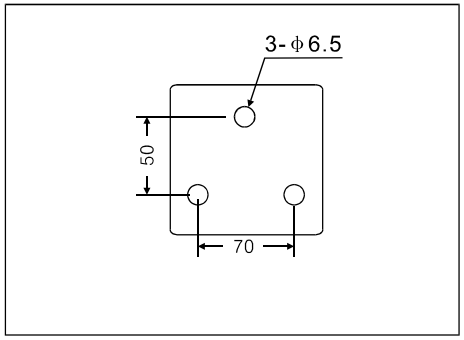
B. 壁装式安装

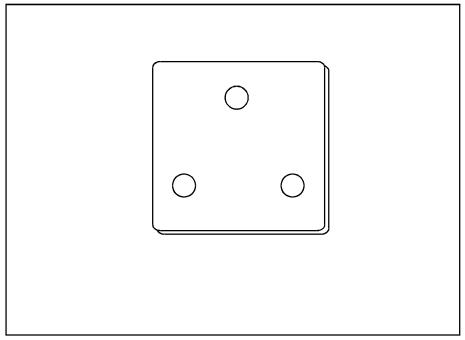
对于可壁装的场所，可使用壁装式的安装方式。
下面介绍壁装式安装方法

注意
◆选择安装地点的天花或墙壁必须坚实无脱层现象。安装地点必须能承受云台和支架重量和的5倍以上。以避免安装不稳造成图象抖动现象。

壁装式安装支架尺寸图

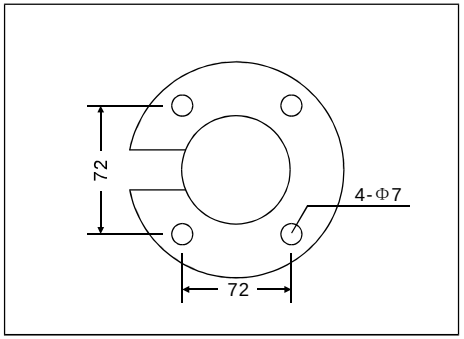




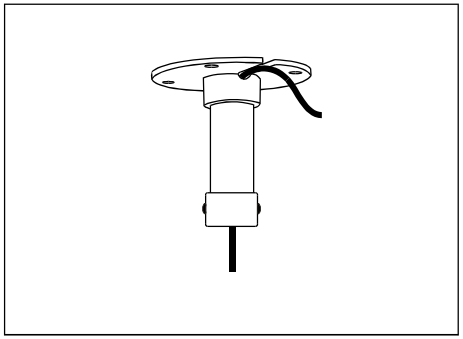


1.按照上图所示的孔位，用电钻在墙壁上打好3个固定孔。

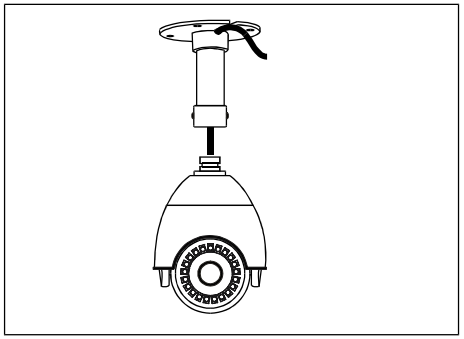
2.将支架底座装在打好的三个孔上。



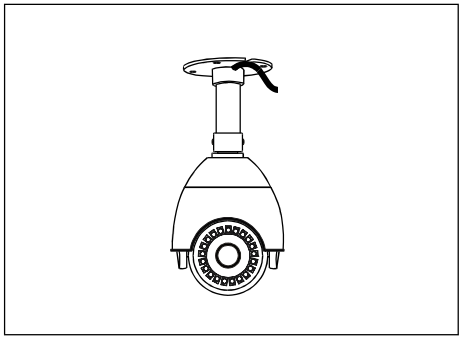
i.Make 4 fixed holes through electric drill on the ceiling, as the hole positions showed in above picture.



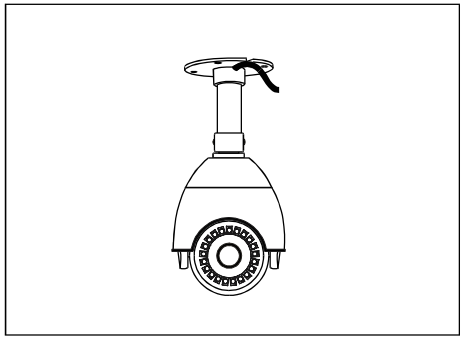
ii.Make the data line come through the bottom of the bracket , and fix the bracket to hole point on the wall.



iii.Insert the terminal on the data line into the bracket on the top of the dome.



iv.Set the dome top into the end tube of the bracket, then lock the three screws on the side.



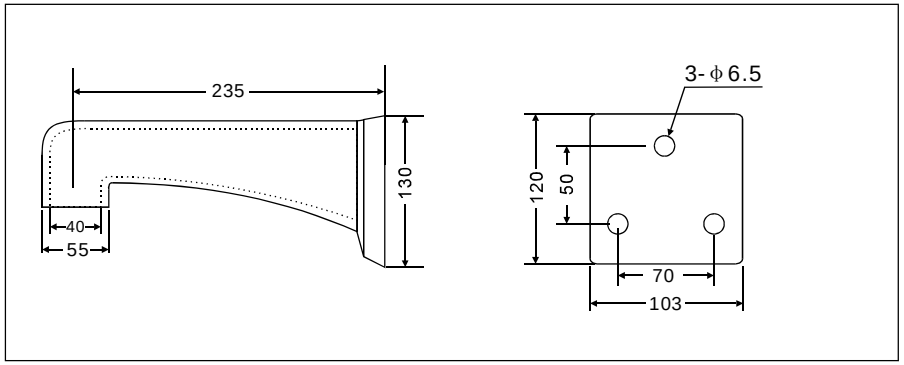
V.Finish.

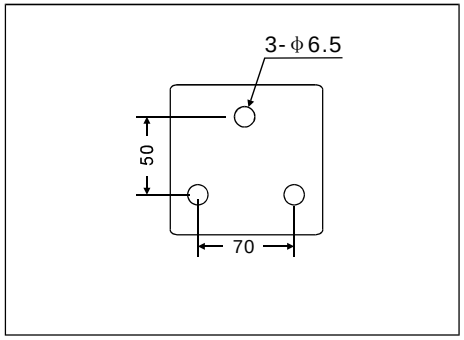
B. Wall bracket Install:

Installation method:

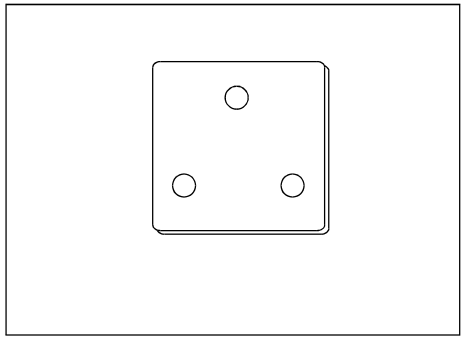
Caution:
◆ Installation location must be a solid ceilings or walls. Installation location must be able to withstand five times of the weight of the bracket and PTZ. In order to avoid instability.

Wall install dimention diagram:

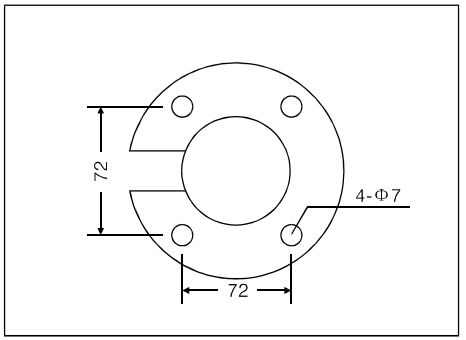




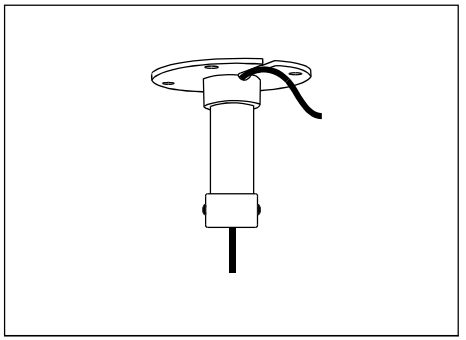
Ⅰ.Make 3 holes with electric drill on the wall , as showed in above pictures.



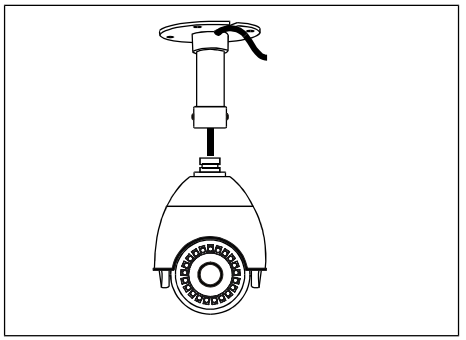
Ⅱ.Make the bracket base lay on the three holes.



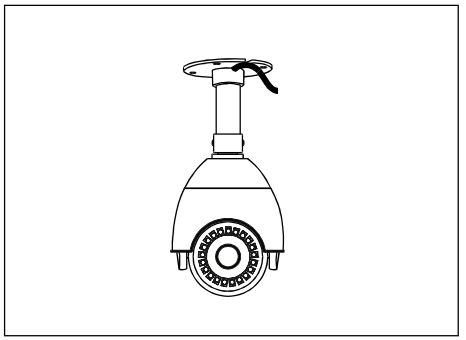
1.按照上图所示的孔位，用电钻在墙顶上打好四个固定孔。



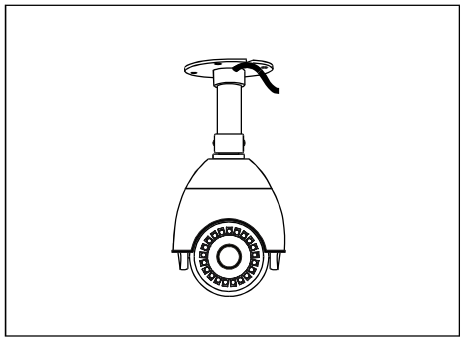
2.将数据线从支架底部穿出，并将支架固定在墙顶打好的孔上。



3.将数据线上的端子，插入球机顶部的插口。



4.将球机顶部套入支架下端圆管内，并锁好侧面3颗螺丝。



5.安装完毕。

高

五、智能红外高速球型摄像机安装说明

5.1智能高速球型摄像机安装要求

1.安装工作必须由有资格的技术人员或系统安装人员在符合当地规定条件下进行。详细的各条接线的接法请参考PCB板上的丝印指示及安装说明。

2.球机下罩属于高等级光学产品，安装时避免用手直接触碰，以免球罩划伤，影响图象质量。

3.为了保证球机成像清晰，球机下罩应该定期清洁。清洁时务必小心，只能用手拿住球罩外环，如必须触碰球罩，需戴柔软质地手套，以避免直接接触下罩，手指摸的酸性汗迹可能会腐蚀下罩的表面镀层，硬物刮伤下罩可能导致球机成像模糊，影响图象质量。请使用足够柔软的赶布过其它替代品檫拭内外表面。如污垢严重，可使用中性清洁剂，任何高级家私清洁产品都可以用于下罩清洁。

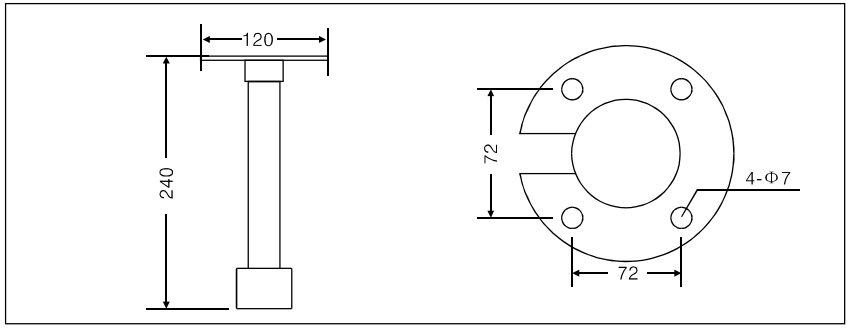
5.2 智能红外高速球型摄像机安装说明

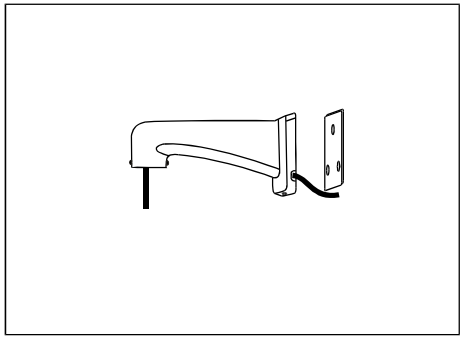
A.吊顶式安装

对于有吊顶的场所，可使用吊顶式的安装方式。
下面介绍吊顶式安装方法

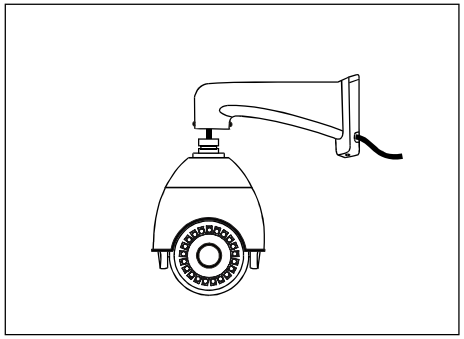
注意
◆ 安装前请确认天花板吊顶的强度，避免球机掉落。如果觉得天花板不够坚固，可用合适的木板在吊顶上做衬板，用螺丝固定好支架。

吊装式支架尺寸图

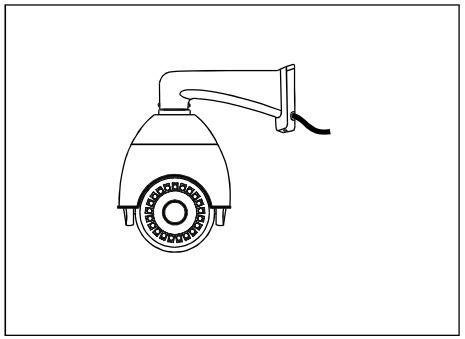




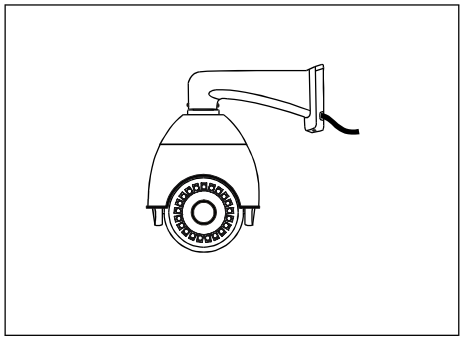
Ⅲ.Make the data line come through the bracket , attach the bracket to the base and lock the screws.



Ⅳ.Insert the terminal on the data line into the socketon the top of the dome.



Ⅴ.Set the dome top into the front tube of the bracket, then lock the three screws on the side.



Ⅵ.Finish.

6.Function:

Achieve all the function through the matched keyboard. Different control systems contain different control systems contain different operation methods, Pls. regard the original control system factory as standards. Something special, pls. contact the retails of the systems.

Operation:

1.Set/ Transfer preset positions

The function of preset position: Set the horizontal range and vertical range of the pan/tilt through the control device, and put in numbers. Transfer the preset position number make the dome to the preset state, when you need. It is much more convenient to set and transfer the preset positions. The dome supports 128 preset positions.

(1)Set Preset Positions

Move the dome to the appropriate location ,and set up preset positions reference to preset function of the control keyboard or DVR. And input the corresponding preset position number.

For example: Set preset position NO.1

A.Move the dome to the expired point

B .Input 1

C.Press “SET”

(2)Transfer Preset Positions

Transfer the preset positions, referring to the corresponding function of the key

Move the dome to some points, set the preset positions through the keyboard and DVR

For example: Transfer preset position NO.1

A.Input 1

B.Press “CALL”

2.Transfer and clean internal cruising tracks

Internal cruising track is set through the operation of any inspection lines, only an external command make the dome automatically carry out inspections in accordance with specified line, and stay at corresponding preset points. This dome camera has four automatic inspection lines, and each line can store 16 preset positions

3>设置球机地址码

地址	地址位开关	地址	地址位开关	地址	地址位开关
0		22		44	
1		23		45	
2		24		46	
3		25		47	
4		26		48	
5		27		49	
6		28		50	
7		29		51	
8		30		52	
9		31		53	
10		32		54	
11		33		55	
12		34		56	
13		35		57	
14		36		58	
15		37		59	
16		38		60	
17		39		61	
18		40		62	
19		41		63	
20		42		64	
21		43			

地址计算方法：（以下是开关状态在OFF时的值）

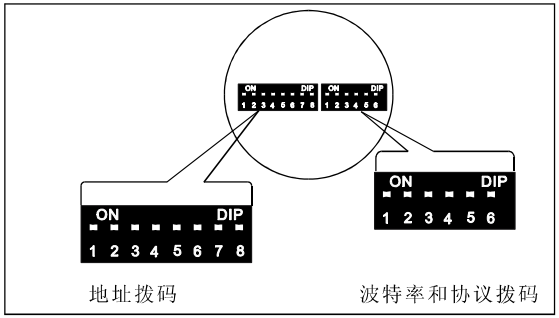
开关： 1 2 3 4 5 6 7 8

对应的值： 1 2 4 8 16 32 64 128

地址号等于开关所对应的值相加。

四、摄像机协议、波特率及地址码设置方法

在智能红外高速球型摄像机未安装前，请先确认系统中的控制主机所使用通信协议、波特率及本机地址码。本机PCB板上有两组拨码开关，并将拨码开关设置成与系统完全一致。



用螺丝刀取下金属外罩上的四颗螺丝，拿开塑胶部分可以看到两组拨码开关。如上图所示

4.1 智能红外高速球型摄像机波特率、协议、摄像机型号和地址码表

1>设置球机波特率

波特率开关状态	波特率	波特率开关状态	波特率
5 6	2400	5 6	4800
5 6	9600	5 6	19200

2>设置球机协议和摄像机型号

协议开关状态	球机协议	型号开关状态	摄像机型号
1 2	PELCO-D	3 4	AN-122
1 2	PELCO-P	3 4	LG/YOKO
1 2		3 4	SONY
		3 4	CNB

(1)Transfer internal cruising tracks

Carry out “Preset position 81 transfer” through the control keyboard and DVR, then the dome inspect the preset position set in the first cruising track. Automatically. And “Preset position 82 transfer” perform, the dome inspects the preset position in second crusing line.

For example: Start the second auto-cruising route
A.Input 82
B.Press “CALL”

(2) Set Stay Time

Five kinds of stay time at preset positions for choose：3 sec, 5sec, 8sec,10 sec. 20sec. Operation , refers to internal menu.

(3)Abolish Internal Cruising Tracks

Carry out “Transfer or abolish preset position 86 ” through the keyboard or DVR, or move rocking bar to stop auto inspection lines.

3. Set up, Start and Stop the Left and Right limits.

The factory setup is 360° continuous rotation. The left and righ limits can be set by the keyboard and DVR. Then the dome can automatically scan between the limit points.

(1)Set left and right limits.

Move the dome to the limit location, and set the start point after the implementation of "Set Preset Position 62”, then move to the right place to set the right limit after “Set Preset Position 63”. The left and right limits are finished.

For example: Set the left and right limits by the keyboard and DVR.
A.Move the dome to the left limit location through the rocking bar.
B.Input 62
C .Press “SET”
D.Shift the dome to the right limit point through the rocking bar
E.Input 63
F .Press “SET”

(2) Start Auto Line Scanning.

Carry out “Transfer Preset Position 84” through the control keyboard and DVR. (The dome don't scan automatically without the left and right limits. With the limits, the dome scan automatical be back and orth between the limit points.

For example:Start auto scanning through the control keyboard.

A.Input 84

B.Press “CALL”

(3) Stop Auto Scanning

Carry out “Transfer and Abolish Preset Position 86” through the keyboard and DVR to stop auto scanning, or to stop by the rocking bar.

For example: Stop auto sc anning by the keyboard.

A.Input 86

B.Press “ CALL” or “CLS” or shift the rocking bar.

(4). Restore Factory Settings

Carry out “ Transfer Preset Position 80” by the keyboard or DVR to transfer internal menu, select “RESET” by up and down keys, 3 seconds later , the function of the preset positions ,the left and right limits and other functions have been reset.

(5).Cuising Tracks Transfer Table:

No.	Preset Positions	Internal Cruising Tracks
1	Transfer 81	First Line (Preset Points: 00-15)
2	Transfer 82	Second Line (Preset Points: 16-31)
3	Transfer 83	Third Line (Preset Points: 32-47)
4	Transfer 84	Auto Line Scanning between Two Points
5	Transfer 85	Fifthe Line (reserved)
6	Transfer 86 orShifting the Rocking Bar.	Stop Scuising

Note: Set the Speed on the Third Scuising Track.

Transfer Preset Point 71 : 5° /S

Transfer Preset Point 72 : 20° /S

Transfer Preset Point 72 : 80° /S

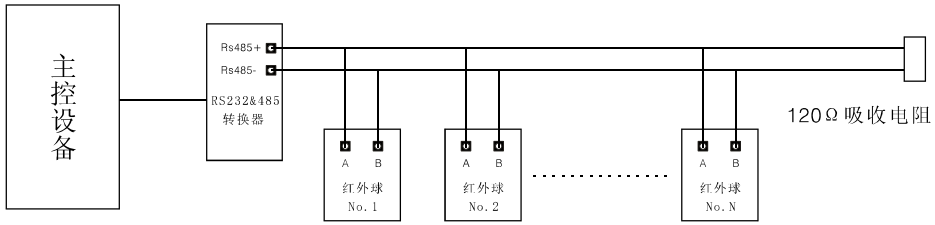
报警板波特率和协议设置表

协议开关状态	球机协议	波特率开关状态	波特率
1 2	PELCO-D	3 4	2400
1 2	PELCO-P	3 4	4800
		3 4	9600
		3 4	19200

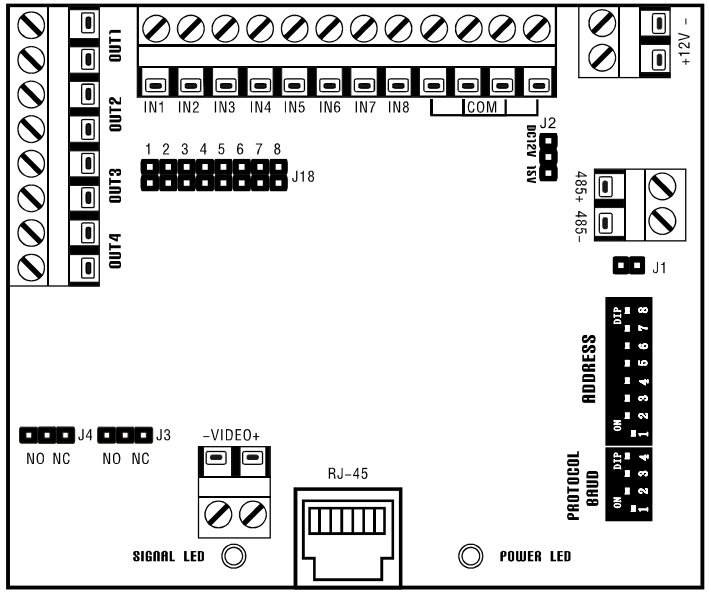
报警板地址的设置请参照球机地址码的设置

3.3 智能红外高速球型摄像机系统连接图

对中心控制而言，为了防止RS485通讯信号及其它信号的反射和干扰，离开控制中心最远的设备通讯接口需并接匹配电阻。如下图，在系统的终端接上匹配电阻。



3.2报警板接线安装说明



功能说明：

1、IN1-IN8为八路报警输入，OUT1-OUT4为四路报警输出。

2、每两路输入分别对应一路报警输出，如IN1、IN2与OUT1对应....IN7、IN8与OUT4对应。

3、8路输入分别对应球机预先设置的8个预置位。

4、通过改变报警板上的拨码可改变球机的地址、波特率和协议，而无需拆开球机改变地址、协议、波特率开关，但必须保证球机解码板为默认出厂设置（地址1，波特率2400协议PELCOD）

注：OUT1-4仅为开关量，默认状态下OUT1、OUT2 固定为常开，OUT3、OUT4则可通过J3、J4 可选，NO为常开，NC为常闭。当某路需接入报警输入时，J18端子上对应的跳线帽应拔出，不接入报警的不用拔。J1是485的终结电阻，最末一个终端需合上跳线帽。

(6).Camera Menu :

a.Start camera menu by transfering preset position 80

b.Operate the upper and lower options on the menu: Input “TELE” or “WIDE”

c.Enter in sub-menu: Input “ OPEN” or “CLOSE”

d.Change the option setting.:Input “ NEAR” or “FAR”

(7).Restore Memory:

Power off , the dome keeps memory , no matter auto scanning , on cruising tracks or resting, The dome restore action, when power is on again.

7. Operation Instruction:

Check the following points before operation:

- Check connection of the cable.
- The keyboard control address shoule be consistent with the dome address code.. Dome ID address can be changed through dome address code switch.
- Protocol the keyboard supported should be consistent with the protocol of the dome camera
- Different control system platform has different operation. Make the user manual of the original control system manufactures as standard.
- “Preset Position 80” reserved on OSD menu , can not be used as common preset point. Preset position “1-128” in this manual exclude “Preset Position 80-86” and “Preset Position 71-73”

Auto checking info.

```
PROTOCOL:   PELCO_D
ADDRESS:      001
BAUDRTE:      2400
CAMERA:        LG

PLEASE  WAIT...
```

1.Start OSD Menu

- Function:

Using OSD menu to check product info, set up stay time, auto flipping shows and camera menu etc.

● Go to Menu:

Press “80+ CALL” to go to menu.

● Menu Key Operation:

a.Input “TELE” or “ WIDE” to operate the upper and lower option.

b.Input “ NEAR” or “FAR” to change option setting, and the function of “FAR” is similer to the function of “ENTER”

2. Main Menu:

```
        MAIN   MENU
    SYSTEM  INFORMATION   ←
    DISPLAY  SETUP
    DOME  SETUP
    ALARM  SETUP
    EXTRA  SETUP
    RESET
    EXIT
```

3.System Information:

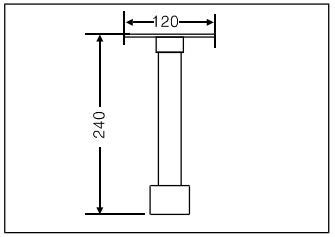
```
        INFORMATION
    PROTOCOL:  PELCO_D
    ADDRESS:       001
    BAUDRTE:       9600
    CAMERA:        sony
    BACK              ←
```

This menu is for inquiry, press “F+” to factory setting, press “F-” back to main menu when the cursor stay at the position showed in the picture.

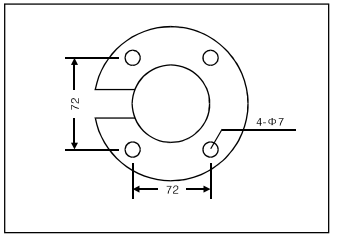
```
        FACTORY INF
CAMERA TYPE:      LG
DATE:             2008.11.13
MANUFACTURER:     ANAGAL
DOME TYPE:        MIDDILE
VERSION:          VER2.0
SERIAL:           00002
BACK                  ←
```


2.3 红外高速球支架外形参数

吊装支架外形图

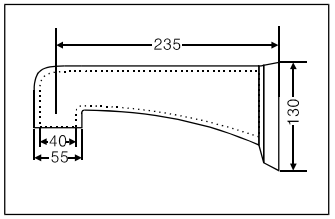


吊装支架外形尺寸图

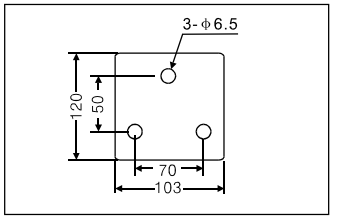


吊装支架安装尺寸图

壁装支架外形图



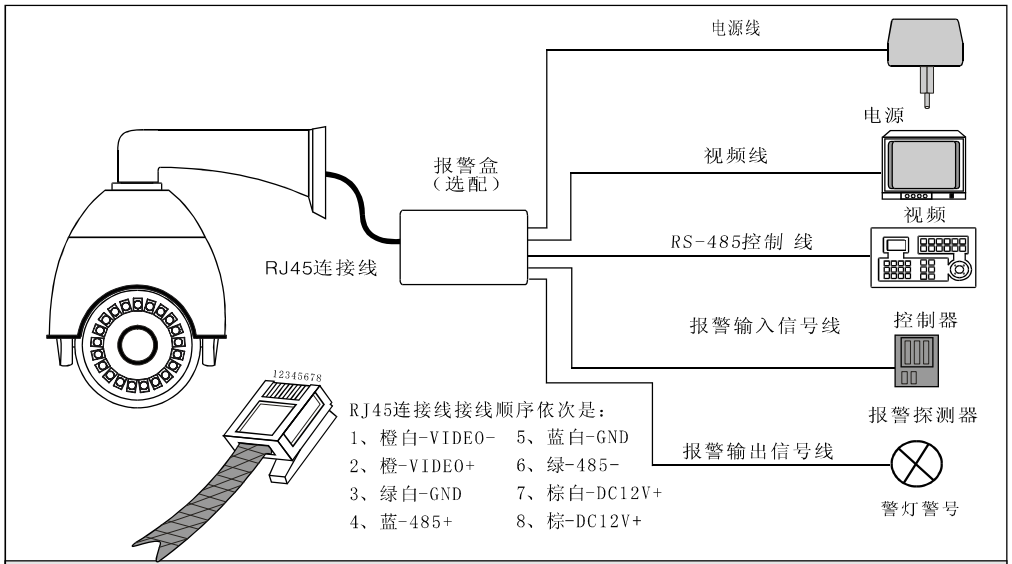
壁装支架外形尺寸图



壁装支架安装尺寸图

三、接线方法

3.1 报警转接盒接线图

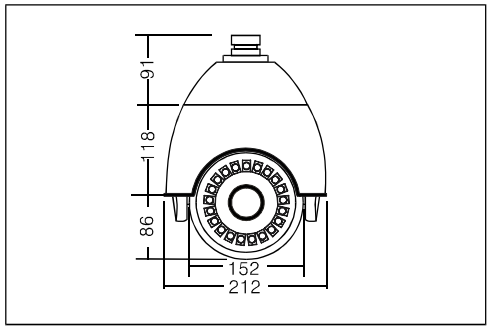


报警系统连接图

二、技术指标

2.1 红外高速球外形参数

产品外形图



产品外形尺寸图

2.2 红外高速球技术参数

云台	旋转范围		水平360° 连续旋转，垂直90° 转动，180° 自动翻转
	速度	调用预置	80° /S
		手动	0.5～80° /S
		线扫	自动
	预置点		128个
	轨迹		4条
	线扫		1条
功能、参数	通讯方式		RS485,最多255个地址
	通讯协议		Pelco_D、Pelco_P自动识别
	波特率		2400bps、4800bps、9600bps、19200可选
	报警输入/输出		8进4出（选配件）
	屏显		菜单/云台、镜头信息
	红外距离		100米
	环境温度		0℃～50℃
	环境湿度		≤95%无结雾现象
	电源		DC12V/3A
	包装尺寸		365*315*280mm

(4) Dome Setup

```
        DOME   SETUP
CAMERA  ID:     001      ←
FOCUS:          AUTO
BLC:            OFF
DAY/NIGHT:      AUTO
IRIS MODE:      AUTO
CAMER  MENU
BACK
```

Press Iris key to access general menu out from internal menu.

(5)Alarm Input Setup

```
        DOME  SETUP
ALARM IN CHANNEL :      1/8
ALARM ENABLE:           OFF
RELATE PRESET
RELATE RELAY OUT        ←
BACK
EXIT
```

Make a linkage between alarm detector and any one preset point,. If the detector alarm is activated, then the camera can move to the corresponding preset point automatically.

(6)Extra Setup

```
        EXTRA  SETUP
AUTO  FLIP:    OFF      ←
OFF TIME:      3SEC
Id:            ON
PRESET LABEL:ON
PARK SETUP
BACK
```

```
        PARK  SETUP
PARK ENABLE: ON         ←
PARK TIME: 001
PRESET No: 001
BACK
```

8. Trouble Shooting

Troubles	Appearance	Method
No action, no picture and no sign when power is on	Connection incorrect	Correct
	Power supply damage	Change
	Poor connection	Check
With self-checking, with Pictures,but no signs and no control	Incorrect address code and baudrate	Reset
	Wrong protocol	Correct
	Wrong connection of RS 485	Check
	Incorrect correction of data line	Correct
	Converter damage	Change
With self-checking ,with Pictures, But without part function	Wrong protocol	Correct
	RS232 or RS485 problem or incorrect conection	Change
Unormal self-checking with pictures but with motor beep	Mechanical problems	Check
	Camera tilt	Replace
	Power supply not enough	Change
Pictures unsteadly	Poor connection of video lines	Check
	Power supply not enough	Change
Blurry pictures	Focus is in manual state	Adjust
	Dirty transparent cover	Clear
Unnormally control	Power supply not enough	Change
	Without matched resistance	Add the matched resistance with the farthest dome

一、产品概述

感谢使用本产品。使用前请仔细阅读说明书。

智能红外**高**速球型摄像机是集高清晰度彩色摄像机、云台和多功能解码器、CPU处理器、存储芯片于一体的高科技监控产品。最大限度的减少系统系统部件之间的连接、安装过程，提高了系统的可靠性。同时也便于安装和维护，具有外形美观，轻巧灵便，操作简单等优点。**（最大的特点是不用拆开球机，即可设置球机的地址、协议、波特率。详细请见4页报警板功能说明）**

具有自主知识产权的四项突破专利技术，解决了恒速球/高速球在内装红外灯时反光影响图象清晰的问题，同时具有监控范围广阔，转动速度快。夜间图象清晰，远程控制快速的优点。

内装直径为135MM高亮度大红外灯板，远近光线合理配置，功率12V2A共24W；充分利用红外线光能；即使在星光暗夜也能在100米处看清楚人脸。

球机为金属外罩，外罩为铝质，防雨、耐老化、耐高温、抗腐蚀。聚碳酸脂透明罩，透光率高，全景不变形。

特性：

摄像机规格

支持SONY系列、LG系列、CNB系列、YOKO系列等一体化摄像机。

强大的云台功能

1.通过摇杆实现慢动功能。
2.采用矢量驱动技术，云台移动轨迹最短。
3.云台中速80°/S。

预置点、轨迹、线扫功能

1.最大可存储128个预置点。
2.4组巡视轨迹设置，每组包含16个预置点，每组预置点的滞留时间可根据需要设置。
3.两点线扫功能。
4.镜头预置功能。

云台镜头控制

1.通过RS485通讯总线，最多可控制255个摄像机。
2.自动识别PELCO_D、PELCO_P协议。

屏显菜单显示

1.通过屏显菜单可以进行摄像机功能的交互设置。
2.摄像机云台号、预置点信息可在屏幕上显示或关闭。

报警输入、输出功能

1.最多可以使用8路外部输入报警信号及四路报警信号输出。
2.如果任何一个报警探测器被激活，摄像机能自动移动到事先设置的位置。同时报警输出信号使连接好的声光报警器打开。